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STUDENT REPORT

JOB ATTITUDES OF SAC PILOTS COMPARED TO OTHER AIR FORCE PILOTS AND NON-RATED OFFICERS

MAJOR JOSEPH K. KENNEDY 86-1380 —— "insights into tomorrow" —

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JOB ATTITUDES OF SAC PILOTS COMPARED TO OTHER AIR FORCE PILOTS AND NON-RATED OFFICERS

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The Leadership and Management Development Center (LMDC), Maxwell AFB, Alabama, was created in 1975. The LMDC charter established it as the focal point for developing better leadership and management for Air Force people and units. To do this, LMDC provided research and consultation services in the field of leadership and management. These research and consultation services will be terminated 1 October 1986.

The present manuscript is written in the style of the American Psychological Association, in Keeping with the requirements of LMDC. The author acknowledges a great debt to the personnel of LMDC/AN for technical advice in the preparation of this manuscript and for performing statistical tests. The help of Major Mickey R. Dansby was invaluable in this regard.

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REPORT NUMBER

86-1380

AUTHOR(S)

MAJOR JOSEPH K. KENNEDY, USAF

TITLE

JOB ATTITUDES OF SAC PILOTS COMPARED TO OTHER AIR FORCE PILOTS AND NON-RATED OFFICERS

- I. <u>Purpose</u>: To determine whether there are significant differences among the job attitudes (as measured by the USAF Organizational Assessment Package—-DAP) of SAC pilots, other Air Force pilots, and non-rated officers and to recommend appropriate steps based on the findings.
- II. <u>Background</u>: In order to determine whether there are significant attitudinal differences among these groups, data from the Organizational Assessment Fackage (OAF) survey data base maintained by the Leadership and Management Development Center (LMDC) are examined. The OAF survey and the consulting process surrounding it can be traced to 1973 and the All Volunteer Force (AVF). At that time, Air Force leaders recognized they would have to do everything possible to enhance the attractiveness of Air Force life to successfully compete for resources in the AVF environment. The AVF prompted the Air Force to take a more active interest in the job attitudes of Air Force personnel. In order to accomplish its mission, the Air Force must have highly qualified personnel. The job attitudes of these Air Force personnel are critical to their performance and retention. In an environment of shortages and increased costs in manpower and

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materials, it behooves the Air Force to seek ways to improve productivity through improving job satisfaction. The present report examines job satisfaction within one major command (SAC) and offers recommendations for improving satisfaction.

- III. <u>Procedures</u>: Several steps were taken to reach the goals of the present research:
- (1) Current and relevant organizational behavior literature were reviewed to determine what previous researchers have learned about work attitudes in general and those of SAC pilots, other Air Force pilots, and non-rated officers in particular.
- (2) OAP-measured demographic characteristics and job attitudes of the three groups were compared. Then, analysis of variance (ANOVA) procedures were used to determine whether there were overall differences between groups at the 95% statistical confidence level. Finally, the Newman-Keuls test was used to determine which specific groups differ from each other.
- (3) Attitudinal differences determined to be statistically and practically significant among the groups were analyzed for trends, consistencies, and inconsistencies; then an attempt to explain significant attitudinal differences among these groups in light of other organizational behavior research was made.
- (4) Recommendations for SAC commanders were developed on how they can capitalize on attitudinal strengths and compensate for attitudinal weaknesses. Also, SAC commanders were advised what work issues they should be concerned about.

IV. Results and Conclusions:

- (1) SAC pilots have less task autonomy than other Air Force pilots and non-rated officers.
- (2) SAC pilots rate their jobs as intrinsically less motivating than other Air Force pilots and non-rated officers rate their jobs.
- (3) SAC pilots feel their organizations are better supervised and managed than the other two comparison groups' organizations. Also, SAC pilots rate their organizations' communications, both supervisory and organizational, higher than the other two comparison groups rate theirs.
- (4) SAC pilots' job related satisfaction is lower than that of other hir force pilots and noncrated officers. However, Sat.



pilots report a more positive feeling about pride than do the other two comparison groups.

V. Recommendations:

- (1) Commanders should make a concentrated effort to increase the task autonomy of SAC pilots whenever the mission permits. A more participative approach in making decisions could help do this.
- (2) Commanders should continue to search for new and innovative ways to motivate SAC pilots. Giving increased responsibility to individuals who demonstrate an ability to handle it could help motivate SAC pilots. In other words, commanders need to avoid the "micro-manager" approach and let their people operate and grow professionally.
- (3) Commanders should continue to foster a climate of open communications. This research indicates SAC does a good job in both the supervisory and organizational communications area. Commanders should continue to stress the importance of feedback to subordinates to maintain good communications.

Chapter One

INTRODUCTION

The primary purpose of this study is to determine whether there are significant differences among job attitudes for SAC pilots, other Air Force pilots, and non-rated officers. For years it's been said that Air Force pilots have regarded flying assignments in some major commands as more satisfying than flying assignments in other major commands (Riely, 1980). This belief, whether correct or incorrect, causes problems for Air Force personnel managers because both new and experienced pilots seek and resist assignments based on this perception. Clearly, job attitudes are important, both to the Air Force member and to Air Force leaders and personnel managers. Studying the attitudes of Air Force pilots, both within specific commands and as a whole, may provide insights as to how we can improve their job satisfaction, and consequently their performance and commitment. Comparing job attitudes of pilots to non-rated officers may yield further insight into job concerns that are unique to pilots. The Air Force must create an environment whereby job satisfaction and personal growth can take place to insure retention of its personnel (Tuttle & Hazel, 1974).

In order to determine whether there are significant attitudinal differences among these groups, data from the Organizational Assessment Package (OAP) data base maintained by the Leadership and Management Development Center (LMDC) at Maxwell AFB, AL, are examined. The OAP survey will be covered in detail in Chapter Three. However, a brief history of the OAP survey is appropriate now.

The OAP survey and the consulting process surrounding it can be traced to 1973 and the All Volunteer Force (AVF). At that time, Air Force leaders recognized they would have to do everything possible to enhance the attractiveness of Air Force life to successfully compete for resources in the AVF environment (Mahr, 1982). The OAP was developed jointly by LMDC and the Air Force Human Resources Laboratory (AFHRL) at Brooks Air Force Base, TX. The present OAP survey was field—tested from January through July of 1978 with a sample of approximately 5000 Air Force personnel. AFHRL did much internal validation and testing prior to this, emphasizing factor composition, internal consistency reliability, item distributions, and model testing. Despite this, however, the field test provided the first opportunity for LMDC consulting teams to use the survey in the field (Short, 1985).

In 1978, AFHRL personnel, LMDC research personnel, and LMDC management consultants gathered at LMDC. They examined the results of the field validation, selected the factors to retain in the UAP survey, and determined the final structure of the

survey. The present OAP survey is a result of these workshops and subsequent field tests by two consultant teams (Short, 1985).

As was mentioned earlier, the AVF prompted the Air Force to develop the OAP and to take a more active interest in the job attitudes of Air Force personnel. In order to accomplish its mission, the Air Force must have highly qualified personnel. In addition, the job attitudes of these Air Force personnel are critical. Experience shows that poor job attitudes directly impact retention rates (Tuttle & Hazel, 1974). All defense agencies are faced with shortages in manpower and increased costs of manpower, as well as shortages and increased costs in materials (Henggeler, 1981).

In today's Air Force our most vital resource is our military personnel. The Air Force must be sensitive to the needs of its people. One way to do this is to know how they feel about their jobs. This study analyzes data that reveal job attitudes of SAC pilots, other Air Force pilots, and non-rated officers. This research pursues four goals:

- 1. To conduct a review of current and relevant organizational behavior literature to determine what previous researchers have learned about work attitudes in general and those of SAC pilots, other Air Force pilots, and non-rated officers in particular;
- 2. To compare OAP-measured demographic characteristics and job attitudes of these three groups and use analysis of variance (ANOVA) procedures to determine whether there are overall

differences among groups at the 95% statistical confidence level; then use the Newman-Keuls test to determine which specific groups differ from each other;

- 3. To select attitudinal differences determined to be statistically and practically significant among the groups and analyze them for trends, consistencies, and inconsistencies; then look at present results and attempt to explain significant attitudinal differences among these groups in light of other organizational behavior research; and
- 4. To develop recommendations for SAC commanders on how they can capitalize on attitudinal strengths and compensate for attitudinal weaknesses; also to advise leaders within SAC what work issues they should be concerned about.

This report addresses each of these goals in the following way. First, Chapter Two shows the results of the literature review. Next, Chapter Three presents the methodology used to conduct the research. This chapter is divided into four sections. The section entitled "Instrumentation" explains the OAP questionnaire. The data collection section describes the process used to gather data. The subjects section deals with the comparison groups. Finally, the procedures section explains those procedures used to analyze the data. Chapter Four contains the analysis results. The results are divided into demographic description and attitudinal results. In Chapter Five, the results, and their implications, are discussed. Finally, Chapter Six presents some conclusions and recommendations.

Chapter Two

LITERATURE REVIEW

Many studies have been written on military career irritants and retention problems. However, very little research deals with pilots' job attitudes as compared to non-rated officers. Furthermore, little research compares Air Force pilots' job attitudes in different major commands to each other. This chapter reviews some organizational behavior theory and some findings of studies that are closely related to pilots' job attitudes.

Job satisfaction and motivation are essential elements of a person's attitude towards his or her work. Attitudes have been defined as feelings, beliefs, and behavioral acts (Hellriegel & Slocum, 1976). To help the reader better understand job satisfaction, motivation, and attitudes toward work, this chapter summarizes some classic work in organizational management theory. First, Frederick Taylor's (1911) influential "scientific management" theory is summarized. Next, motivation is discussed by describing Maslow's (1954) hierarchy of needs. Then, job satisfaction is examined by describing Herzberg's (Herzberg, Mauser & Synderman, 1959) "two-factor" theory. Chapter Two

concludes by reviewing some findings of studies closely related to pilots' job attitudes.

Basic Theory

Taylor's "Scientific Management"

As cited by Henggeler (1981), Taylor's ideas and thoughts about the problems associated with an organization resulted in a theory he describes as "scientific management." Taylor believed that work, the human and physical components, can be studied scientifically. Through science, Taylor hoped to determine a method for organizing work. Taylor developed four key elements in his management theory:

- 1st: Develop a science for each element of a man's
 work which replaced the old rule-of-thumb method.
- 2nd: Scientifically select and then train, teach, and develop the workman.
- 3rd: Cooperate with the men to insure all work is done in accordance with principles of the science which has been developed.
- 4th: There is almost an equal division of the work and the responsibility between the management and the workmen. The management takes over all work for which they are better fitted.

 (Taylor, 1911, pp. 36-37)

These four concepts are still being used today and are often thought of as structure, functional processes, span of control, and the division of labor. Some felt that Taylor considered men only motivated by economic gain (Henggeler, 1981). Later, theorists looked beyond basic motivation by economic gain to explore the higher order needs of man.

Maslow's Hierarchy of Needs

Maslow's model of human behavior is one of the earliest theories dealing with higher motivation. Maslow's model is based on two fundamental premises:

- Man is a wanting animal whose needs depend on what he already has. Only needs not yet fulfilled can influence behavior; an adequately fulfilled need is not a motivator.
- Man's needs are arranged in an hierarchy of importance. Once one need is fulfilled, another emerges and demands fulfillment. (Maslow, 1954, p. 220)

In Maslow's hierarchy, five types of needs were presented. These needs, in order of priority, are physiological, safety, social, esteem, and self-actualization. Maslow defined the physiological needs as the primary needs for survival. These needs include air, food, water, shelter, sleep, and sex. Physiological needs are the controlling needs if all needs are unsatisified. Maslow defined safety as protection from bodily injury, illness, and insecurity. When physiological needs are met, safety needs become the primary motivators. Maslow's social needs include love, companionship, acceptance, and belonging. At this level, the controlling needs move from the physical to the mental or psychological realm. The esteem need consists of self-esteem and esteem from others. Self-esteem stems from self-respect, confidence, achievement, and mastery. Esteem from others includes prestige, status, and approval from others. The final need is self-actualization. Maslow defines this as the desire to become more and more of what one is, to become

everything that one is capable of becoming. To satisfy this need all other needs must be satisfied first (Henggeler, 1981).

Maslow contends these hierarchical needs are present in all mankind. He also notes that the order of needs, especially those in the middle of the hierarchy, may vary from one individual to another. In addition, he says that moving up the hierarchy can take a long time (Maslow, 1970).

Herzberg's Two-Factor Theory

Herzberg and his associates have shown the importance of job attitudes to motivation and productivity (Herzberg et al., 1959). Herzberg developed a "two-factor" theory based on interviews of accountants and engineers. He identified job conditions that contribute to job satisfaction as the first factor or "motivators." These job conditions are achievement, recognition, advancement, work itself, and responsibility. They describe the job content.

Herzberg called the second factor "hygienes" and they included company policy, technical supervision, salary, job security, personal life, interpersonal relationships, and status. These factors described the job environment. Without these job conditions present, job dissatisfaction would result.

According to Herzberg, job satisfaction and dissatisfaction result from two separate human needs: animal needs and activity needs. Fulfilling the human animal needs will not lead to job satisfaction. These needs are biological and parallel Maslow's physiological needs. Fulfilling human activity needs can lead to

job satisfaction. Self-actualization and the ability to achieve are examples of human activity needs fulfilled.

Job Attitude Research on Air Force Pilots

Air Force officials have recognized the importance of job attitude research (Short, 1985). However, there is little research that focuses on the job attitudes of pilots in different commands. A review of some studies closely related to pilots' job attitudes reveals some interesting findings.

The USAF Study (USAF, 1966) was conducted as a response to the loss of experienced officers and the increased cost of training replacements. The purpose of this study was to identify those factors seen as important job and career motivators. The study consisted of questionnaires and interviews with 420 randomly selected officers. The study concluded that motivation of rated officers may improve by focusing on policies related to TDY, alerts, job assignments, and career planning. The study found these areas negated such motivating factors as love of flying, sense of accomplishment, and opportunity for career progression (Riely, 1980).

In 1965, MAC initiated a series of studies on aircrew morale which continued until 1970. The USAF School of Aerospace Medicine conducted the studies. In 1968, 43% of MAC rated officers listed "time away from home" as the most disliked aspect of their job (Cantrell & Hartman, 1968). A 1970 study (Dryden, Kirschner & Hartman) indicated 58% of MAC's Air Rescue Service

rated officers reported that their jobs had negative effects on themselves and their families.

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In 1972, a research project was conducted on officer retention within the Tactical Airlift Force. Questionnaires were completed and interviews conducted with 140 C-130 rated officers. Family separations and little control over assignments were listed by 70% and 53% of the people, respectively, as most unfavorable job factors. Pay and allowances were listed as the most favorable by those participating in the study (Riely, 1980).

In 1978, Beck and Gray found that ATC instructor pilots were dissatisfied because they could not transfer between weapon systems and major commands. The study indicates pilots don't want to serve in the same aircraft during their entire Air Force careers (Beck & Gray, 1978). The authors interviewed many pilots serving as ATC instructor pilots as part of an exchange program from MAC and SAC. The interviews indicated these pilots enjoyed their exchange tours. However, they were required to return to their previous commands. They had no chance to be assigned to other commands. Many indicated this policy would cause them to seriously consider separating from the Air Force (Riely, 1980).

This brief review of organizational behavior concepts and the findings of studies on pilots' job attitudes highlights the importance of understanding the motivating aspects of the job environment. The lack of significant research on job attitudes of SAC pilots inspired the present study. How do SAC pilots feel

about their jobs? The next chapter explains the methodology used in the present research to try and answer that question.

Chapter Three

METHODOLOGY

This chapter presents the methodology used to determine what job attitude differences exist between SAC pilots, other Air Force pilots, and non-rated officers. The Organizational Assessment Package (OAP), data collection, the subjects in the OAP survey, and analysis procedures are discussed.

<u>Instrumentation</u>

The survey instrument used to gather the data for this study was LMDC's DAP (Appendix C). The DAP is a survey designed jointly by the Air Force Human Resources Laboratory and LMDC. It is used to aid LMDC in its missions to (a) conduct research on Air Force systematic issues using information in the DAP data base. (b) provide leadership and management training, and (c) provide management consultation services to Air Force commanders upon request. In its present form, the DAP survey consists of a computer-scored response sheet and a 109-item booklet. Responses use a scale of 1 to 7, with a value of 1 generally indicating strong disagreement or dissatisfaction with the question or statement, and a 7 usually indicating strong agreement or satisfaction. The exact meaning of each response is clearly

undo ated in the introduction to each of the seven sections or modules of the survey.

To better understand the seven modules, we need to look at each one. The first OAP module is the BACKGROUND INFORMATION SECTION. The 16 items in this section gather demographic information about the respondent. The second OAP module, JOB <u>INVENTORY</u>, relates to the respondent's job. Respondents rate 34 items dealing with job complexity, the degree of job autonomy, performance standards, job goals, etc. The third module, <u>JOB</u> DESIRES, contains seven items about the desired job characteristics. The fourth module, <u>SUPERVISION</u>, consists of 19 items which measure leadership/managerial traits of the respondent's supervisor. The fifth module, WORK GROUP EFFECTIVENESS (WORK GROUP PRODUCTIVITY), consists of five items dealing with the quantity and quality of the work produced by the respondent's work group. The sixth module, <u>ORGANIZATION CLIMATE</u>, consists of 19 items about the respondent's relationships with the squadron or staff agency. The items deal with communication within an organization, rewards and recognition for contributions, and teamwork within the organization. The final module, JOB RELATED SATISFACTION, consists of nine items that round out the picture of the respondent's work environment. The items deal with subjects such as the degree of teamwork among co-workers, the respondent's family's attitude towards his/her Job, and whether or not the Job provides an opportunity to acquire valuable skills (Short, 1985).

Short (1985) presents evidence for the validity and reliability of the OAP. Results of the survey administrations are maintained in a cumulative data base at LMDC consisting of nearly 300,000 cases.

Data Collection

All data for the present report were collected in conjunction with LMDC management consultations. In the LMDC management consultation process, the initial administration of the DAP in an organization is a key step in the data gathering process (Vermilya, 1985). To administer the OAP, LMDC must first be invited by the commander of the subject organization (usually of wing size or equivalent). Consultants visit the organization and administer the survey in group sessions. Respondents are promised individual and ymity for their responses. Consultants from LMDC administer surveys directly to all members of the organization present for duty during the survey period. Thus, the survey is a census, rather than a sampling, within the organization. (From an Air Force-wide perspective, the bases visited are an opportunity sample and were not selected randomly. However, a large number of bases in all major commands have been visited.) The consultants also conduct interviews with personnel and gather other management data. After returning to LMDC, they perform a computer assisted analysis of survey results for the organization. Then the consultants return to the organization for a tailored visit to provide feedback to supervisors, assist

them in preparing action plans to work problem areks, and conduct on-site workshops and seminars. The survey results are treated in a confidential manner between LMDC and the client commander.

Between four and seven months after the tailored visit, the consultants return to the organization to re-administer the QAP and do other follow-up data gathering. In this case, the OAP is used as an evaluation tool to assess the impact of the consulting process. After analysis, a final report and the results comparing pre- and post- OAP administrations are mailed to the client organization. Data for the present analysis include only survey results from the initial (as opposed to follow-up) data gatherings.

<u>Subjects</u>

This study compares the job attitudes of SAC pilots, other Air Force pilots, and non-rated officers. To compare the job attitudes of these groups, responses to the pre-intervention OAP were taken from the LMDC Data Base. All subjects of this research were active duty Air Force officers. The data are taken from surveys administered at more than 70 bases or sites, including 12 SAC bases, between 1 October 1981 and 16 September 1985.

SAC pilots help deter nuclear war by providing ready, flexible, and credible strategic response capability. This capability counters threats to vital US security interests. SAC pilots perform bombing, refueling, and reconnaissance missions.

Other Air Force pilots in this study are from MAC, TAC, and ATC. MAC pilots primarily fly airlift missions. TAC pilots perform tactical missions to include close air support, air interdiction, and air-to-air operations. ATC pilots are responsible for training student pilots. The non-rated officers group consists of Air Force officers who do not possess an aeronautical rating. The non-rated officers represent a broad spectrum of career fields. While virtually all of the pilots were males, almost 18% of the non-rated officers were females. Sample sizes for the three groups consisted of 225 SAC pilots, 1937 other Air Force pilots, and 8030 non-rated officers. More detailed demographic information is contained in Appendix A.

Procedures

To analyze the data, the officers responding to the survey were arranged into three groups: (a) SAC pilots, (b) other Air Force pilots, and (c) non-rated officers. Results of analyses of the groups are reported in two separate comparisons. First, an analysis of demographics is provided to characterize the sample groups. Secondly, a comparison of SAC pilots' job attitudes to other Air Force pilots' and non-rated officers' job attitudes is provided using the OAP data base.

In order to make these comparisons, the Statistical Package for the Social Sciences (SPSS) computer package was used.

Demographic and attitudinal results on the OAP were compared separately for SAC pilots, other Air Force pilots, and non-rated

officers. The analysis of variance (ANOVA) procedure was used to determine whether there are statistically significant overall differences among the groups at the 95% confidence level. After the ANOVA, the Newman-Keuls test was administered to determine which specific groups differ significantly from each other.

Statistically significant differences at the 95% confidence level are considered acceptable evidence that there are differences among SAC pilots, other Air Force pilots, and non-rated officers on OAP results. Such differences are conventionally accepted as reliable with 95% confidence in the behavioral sciences research. No prior hypotheses about whether SAC pilots, other Air Force pilots, or non-rated officers are higher or lower than each other were proposed; rather the research question was "are there any differences, whether higher or lower, among SAC pilots, other Air Force pilots, and non-rated officers?" If the <u>F</u>-Statistic (ANOVA) was significant, the differences between the means for the various groups and the results of the Newman-Keuls follow-up procedure indicated the direction and statistical significance of attitudinal differences.

This chapter has outlined the methodology used to determine significant job attitude differences among SAC pilots, other Air Force pilots, and non-rated officers. Chapter Four presents the demographic and attitudinal results of the research.

Chapter Four

RESULTS

The previous chapter outlined how the job attitude differences of SAC pilots, other Air Force pilots, and non-rated officers were to be compared. The purpose of this chapter is to present results of these comparisons on the demographic variables and each of the 21 factors listed in Table 1. The results of the Analyses of Variance are summarized and shown in Table 1.

Tables A-1 through A-21, Appendix A, provide detailed and descriptive information about the three groups compared in the present study. The typical SAC pilot respondent is between 26 and 40 years of age, has more than 36 months in the career field, and between 6 and 36 months in his (all are males) present position. More than 94% are white and over 85% are married. More than 50% of the SAC pilots hold advanced academic degrees. More than 70% supervise at least three people. Twenty-two percent do not write performance reports. Over 60% indicate they will make the Air Force a career.

Other Air Force pilot respondents consist of pilots from MAC, TAC, and ATC. The typical pilot from this group is between 21 and 35 years of age, has 18 to 36 months in the career field, and between 6 and 36 months in his or her present position. More

TABLE 1
Summary Results of ANOVAs

Factor Group Means					
	SAC Other AF Non			Sig/Dif	
	Pilots	Pilots	Rated	Yes N	10
Job Performance Goals	4.87	4.92	4.65	×	
Task Characteristics	5.39	5.45	5.33	×	(
Task Autonomy	3.59	3.91	4.75	×	
Work Repetition	4.46	4.64	4.23	×	
Desired Repet/Easy Tasks	2.33	2.50	2.48	×	
Job Related Training	5.26	5.27	4.49	X	
Skill Variety	5.62	5.75	5.38	×	
Task Identity	5.44	5.34	5.20	×	
Task Significance	5.72	5.79	5.82	×	(
Job Feedback	4.78	4.88	4.88	>	(
Need for Enrichment	6.04	5.97	6.13	×	
Job Motivation Index	97.90	107.75	131.53	×	
Work Support	4.43	4.28	4.57	X	
Management/Supervision	5.48	5.43	5.24	X	
Supervisory Comm	5.03	4.99	4.79	X	
Organizational Comm	5.13	5.01	4.81	×	
Pride	5.79	5.78	5.40	×	
Advancement/Recognition	4.70	4.58	4.59	>	(
Workgroup Effectiveness	5.93	5.85	5.73	X	
Job Related Satisfaction	5.21	5.25	5.41	×	
Gen Organ Climate	5.54	5.34	5.11	×	

than 95% are white and over 75% are married. Only 24% of this group have advanced academic degrees. More than 40% supervise at least three people. Seventy percent write performance reports. Thirty-nine percent indicate they will make the Air Force a career.

The typical non-rated officer respondent is between 21 and 41 years of age, has between 18 and 36 months in the career field, and between 6 and 36 months in his or her present position. Just over 85% are white and 76% are married. Thirty-eight percent of these non-rated officers have advanced degrees. More than 45% supervise at least three people. Forty-seven percent do not write performance reports. Over 50% indicate they will make the Air Force a career.

Results of the ANOVAs indicate significant differences (sig/dif) between comparison groups at the 95% confidence level on 17 of the 21 OAP factors analyzed (Table 1). More detailed information on the ANOVAs is found in Appendix B, Table B-1.

Significant attitudinal differences found in the 17 DAP factors cover all four organizational function areas. These include work itself, job enrichment, work group process, and work group output. The following paragraphs summarize the attitudinal differences between comparison groups in each functional area.

Under the work itself functional area, SAC pilots see themselves as having less Task Autonomy than other Air Force pilots and non-rated officers. They also indicated their work was less repetitive than other Air Force pilots but more

repetitive than non-rated officers. No significant differences exist among comparison groups for Task Characteristics.

In the job enrichment area, SAC pilots were less motivated by the job itself than other Air Force pilots and non-rated officers. However, SAC pilots reported a more positive attitude about the importance of their job. Also, no significant differences exist among the comparison groups concerning feedback about their performance. All three groups felt their jobs provided moderate feedback.

In the work group process area, which includes measurements of overall supervision and management, SAC pilots reported more favorable perceptions than did the other two comparison groups in Management Supervision, Supervisory Communications, and Organizational Communications. Non-rated officers reported a more positive feeling about Work Support than did SAC pilots and other Air Force pilots.

The last key area in which significant differences were noted was work group output. SAC pilots indicated their Job Related Satisfaction was lower than other Air Force pilots and non-rated officers. However, SAC pilots reported a more positive feeling about Pride than did the other two comparison groups. Also, SAC pilots indicated more positive Workgroup Effectiveness and General Organizational Climate. No significant differences exist among the groups with reference to Advancement/Recognition.

This chapter has presented the results from data gathered for the LMDC Data Base. Chapter Five discusses these results and attempts to explain them.

Chapter Five

DISCUSSION

As shown in the previous chapter, 17 of the 21 factors evaluated revealed significant differences between comparison groups. Table 1 contains a summary of these findings.

This chapter attempts to examine, interpret, and qualify the results cited in Chapter Four. In addition, certain inferences are drawn from the results. The significant attitudinal differences found in the 17 OAP factors cover all four organizational function areas. The following paragraphs examine and interpret computer results from these four areas while also comparing these results to literature review findings where applicable.

The first organizational function area examined is work itself. This area consists of six factors. They include Task Characteristics, Job Performance Goals, Task Autonomy, Work Repetition, Desired Repetitive/Easy Tasks, and Job Related Training. There are significant differences between at least two of the comparison groups on five of the six OAP factors. No significant differences exist among comparison groups for Task Characteristics.

Although statistical differences exist among the groups in the other five factors, I believe the Task Autonomy factor is the most important. SAC pilots feel they have considerably less Task Autonomy than other Air Force pilots and non-rated officers. As a former SAC pilot myself, I have seen this problem become contagious and a real detriment to an organization. Air Force officers should be given an opportunity to make decisions. This allows them to develop confidence and grow professionally. As mentioned in the literature review, Herzberg and his associates have shown the importance of task autonomy in his "two-factor" theory (Herzberg et al., 1959). Herzberg lists task autonomy (responsibility) as a primary motivator that contributes enormously to job satisfaction.

In the job enrichment area, there are six factors. These include Skill Variety, Task Identity, Task Significance, Job Feedback, Need for Enrichment, and Job Motivation Index. No significant differences exist among the comparison groups for Task Significance and Job Feedback. However, there are significant differences among the comparison groups on the other four factors.

I believe the most important factor in this functional area is the Job Motivation Index. Computer results indicated SAC pilots rated the intrinsic motivation potential of their jobs lower than other Air Force pilots and non-rated officers. As Air Force leaders it's our job to provide jobs that are as intrinsically motivating as possible under the circumstances.

Experience shows that motivated people perform better than those who are not motivated. Maslow (1954) showed the importance of motivation to job attitudes and productivity. He believed that man is motivated by more than just economic gain. The USAF Study (USAF, 1966) confirmed this. It recommended the Air Force could improve rated officer motivation by focusing on alerts, job assignments, and career planning. Since SAC pilots work closely with a large part of our nuclear arsenal, the Air Force should explore ways to enrich their jobs and better motivate these personnel.

There are four factors in the third functional area, work group process. They are Work Support, Management and Supervision, Supervisory Communications Climate, and Organizational Communications Climate. Although statistical differences exist among the comparison groups in all four factors, none of the absolute differences is very large. Therefore, no major differences exist among the comparison groups.

The final OAP organizational function area is work group output. There are five factors in this area. They are Pride, Advancement/Recognition, Workgroup Effectiveness, Job Related Satisfaction, and General Organizational Climate. No significant differences exist among groups for the Advancement/Recognition factor. There are significant differences on the remaining four factors.

I believe the two most important factors in this functional area are Pride and Job Related Satisfaction. It's interesting to note that although SAC pilots expressed a lower Job Related Satisfaction than other Air Force pilots and non-rated officers, they indicated a more positive feeling about Pride. Although Herzberg (1959) in his "two-factor" theory doesn't mention pride specifically as a motivator, one could say it is closely related to what Herzberg calls achievement. Herzberg identified achievement as a major contributor to job satisfaction. In other words, a direct correlation exists between achievement (pride) and job satisfaction. However, this doesn't appear to be the case with SAC pilots. With SAC pilots expressing more Pride and less Job Related Satisfaction than other Air Force pilots and non-rated officers, they appear to be an exception to Herzberg's "two-factor" theory.

This chapter has attempted to examine, interpret, and qualify the results in Chapter Four. Chapter Six contains some conclusions based on the research. Additionally, some recommendations are made based on the results of this study.

Chapter Six

CONCLUSIONS AND RECOMMENDATIONS

The primary purpose of this study was to compare the job attitudes of SAC pilots, other Air Force pilots, and non-rated officers. The instrument used to make these comparisons was LMDC's Organizational Assessment Package (OAP). This survey measures 21 job attitude factors in four organizational function areas. This chapter discusses the conclusions of this research and also makes recommendations based on the results.

Conclusions and Summary of Findings

This research shows that significant attitudinal differences exist between SAC pilots, other Air Force pilots, and non-rated officers. This conclusion is based on the LMDC computer results that indicated the comparison groups were statistically significantly different on 17 of 21 factors in the OAP survey (See Appendix B for more detailed information). The following findings are the most important from each of the four organizational function areas:

- Work Itself: SAC pilots have less Task Autonome than other Air Force pilots and non-nated officers.
- 2. <u>Job Enrichment:</u> SAC pilots rate their jobs intrinsically less motivating than other Air Force pilots and non-rated officers rate their jobs.

- 3. Work Group Process: SAC pilots feel their organizations are better supervised and managed than the other two comparison groups' organizations. Also, SAC pilots see their organizations' communications, both supervisory and organizational, as superior to the other two comparison groups.
- 4. <u>Work Group Output:</u> SAC pilots' Job Related
 Satisfaction is lower than that of other Air Force
 pilots and non-rated officers. However, SAC pilots
 report a more positive feeling about Pride than the
 other two comparison groups report.

Recommendations

The study results clearly indicate that lob attitude differences exist among SAC pilots, other Air Force pilots, and non-rated officers. In view of the study's findings, recommendations are made in four areas. These four areas are the organizational function areas assessed by the OAP: work itself, job enrichment, work group process, and work group output.

More specifically the recommendations address the factors of Task Autonomy. Job Motivation Index, Supervisory Communications Climate, Organizational Communications Climate, and Job Related Satisfaction. It's important to understand that each factor is a member of one of the four organizational function areas respectively. Furthermore, even though the study indicates many statistical differences, the author views the four previously mentioned factors as the most practically significant and therefore worthy of further examination.

The information contained in this study should be brought to the attention of SAC commanders. The author makes the following recommendation:

- Commanders should make a concentrated effort to increase the task autonomy of SAC pilots whenever the mission permits. A more participative approach in making decisions could help do this.
- 2. Commanders should continue to search for new and innovative wave to motivate SAC priots. Groung increased responsibility to individuals who demonstrate an ability to handle it could help motivate SAC pilots. In other words, commanders need to avoid the "micro-manager" approach and let their people operate and grow professionally.
- 3. Commanders should continue to foster a climate of open communications. This research indicates SAC does a good job in both the supervisory and organizational communications area. Commanders should stress the importance of feedback to subordinates to maintain good communications.

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APPENDIX A
DEMOGRAPHICS

Table A-1
Number of Respondents by Personnel Category

SAC Pilots	Other AF Pilots (<u>n</u>)	Non-Rated Officers (<u>n</u>)
225	1937	8049

Table A-2
Sex by Personnel Category

	Male (%) (<u>n</u>)	Female (%) (<u>n</u>)
SAC Pilots	100.0 225	0.0 0
Other AF Pilots	99.4 1926	0.6 11
Non-Rated Officers	82.1 6596	17.9 1434

Table A-3
Age by Personnel Category

	SAC Pilots (%)	Other AF Pilots (%)	Non-Rated Officers (%)
<u>n</u> =	225	1937	8049
21 to 25 Yrs	0.4	20.6	11.8
26 to 30 Yrs	22.2	41.4	25,3
31 to 35 Yrs	36.9	18.5	25.4
36 to 40 Yrs	33.8	15.2	20.4
41 to 45 Yrs	5.3	3.7	11.7
46 to 50 Yrs	0.4	0.3	3.5
> 50 Years	0.9	0.4	1.9

Table A-4
Time in Air Force

<u>u</u> =	SAC Pilots (%) 225	Other AF Pilots (%) 1936	Non-Rated Officers (%) 8036
< 1 Yr	0.0	0.2	4.7
1 to 2 Yrs	0.0	3.3	6.6
2 to 3 Yrs	ũ.4	13.6	6.9
3 to 4 Yrs	0.9	11.1	6.5
4 to 8 Yrs	21.3	31.4	20.4
8 to 12 Yrs	32.9	17.8	15.6
> 12 Years	44.4	22.7	39.4

Table A-5

Months in Present Career Field

	SAC Pilots (%)	Other AF Pilots (%)	Non-Rated Officers (%)
<u> </u>	221	1924	8004
< 6 Mos	2.7	4.4	5.1
6 to 12 Mos	3.2	9.6	7.4
12 to 18 Mos	2.7	10.2	7.0
18 to 36 Mos	11.3	28.2	19.4
) 36 Mos	80.1	47.6	61.1

Table A-6
Months at Present Duty Station

<u>n</u> =	SAC Pilots (%) 225	Other AF Pilots (%) 1931	Non-Rated Officers (%) 8033
< 6 Mos	10.7	11.5	14.4
6 to 12 Mos	12.4	17.1	16.9
12 to 18 Mos	16.4	16.7	16.9
18 to 36 Mos	32.9	37.1	35.1
> 36 Mos	27.6	17.7	16.7

Table A-7
Months in Present Position

<u>n</u> =	SAC Pilots (%) 225	Other AF Pilots (%) 1929	Non-Rated Officers (%) 8027
< 6 Mos	28.9	32.9	24.9
6 to 12 Mos	25.3	30.2	23.9
12 to 18 Mos	16.0	17.0	17.3
18 to 36 Mos	19.1	16.3	26.4
> 36 Mos	10.7	3.7	7.5

Table A-8 Ethnic Group

	SAC Pilots	Other AF Pilots	Non-Rated Officers
<u>u</u> =	224	1929	8014
White	94.2	95.1	85.3
Hispanic	1.8	1.0	2.7
Black	0.9	0.9	7.5
Other	3.0	2.9	4.5

Table A-9
Marital Status

	SAC Pilots (%)	Other AF Pilots (%)	Non-Rated Officers (%)
<u>n</u> =	225	1933	8046
Not Married	12.4	22.6	22.1
Married	86.2	77.0	76.0
Single Parent	1.3	0.4	1.9

Table A-10
Spouse Status: SAC Pilots

	Geographically Separated (%)	Not Geo Separated
<u> </u>	4	190
Civilian Employed	100.0	27.4
Not Employed	0.0	70.0
Military Member	0.0	2.6

Table A-11

Spouse Status: Other AF Pilots and Non-Rated Officers

<u> </u>	Geographically Separated (%) 334	Not Geo Separated (%) 7272
Civilian Employe	58.0	34.0
Not Employed	18.0	56.0
Military Member	24.0	10.0

Table A-12
Educational Level

	SAC Pilots (%) 224	Other AF Pilots (%) 1936	Non-Rated Officers (%) 8022
<u>n</u> =	227	1736	
HS Grad or GED	0.0	0.1	0.1
< 2 yrs College	0.4	0.0	0.2
> 2 yrs College	0.0	0.2	1.8
Bachelors Degree	46.0	75.6	48.0
Masters Degree	53.1	24.0	38.1
Doctoral Degree	0.4	0.1	11.9

Table A-13
Professional Military Education

		Other AF Pilots	Non-Rated Officers
	(%)	(%)	(%)
<u>u</u> =	225	1933	8038
 None	9.3	40.2	36.7
Phase 1 or 2	0.4	0.4	1.2
Command Academy	0.0	0.3	2.7
Sr NCO Academy	0.0	0.0	0.2
Sq Officer Sch	29.3	31.1	26.2
Int Service Sch	51.1	23.3	21.5
Sr Service Sch	9.8	4.7	11.5

Table A-14

Number People Directly Supervised

<u>v</u> =	SAC Pilots (%) 219	Other AF Pilots (%) 1809	Non-Rated Officers (%) 7604	
None	16.9	56.8	37.4	
1 Person	5.9	4.1	8.3	
2 People	0.9	5.2	7.2	
3 People	28.3	7.0	8.3	
4 to 5 People	22.8	9.7	14.9	
6 to 8 People	13.7	6.0	10.4	
9 or > People	11.4	11.2	13.5	

Table A-15

Number People for Whom Respondent Writes APR/OER/Appraisal

	SAC Pilots	Other AF Pilots	Non-Rated Officers
	(%)	(%)	(%)
<u>n</u> =	225	1929	8030
None	22.2	70.6	47. 0
l Person	5.3	3.7	11.4
2 People	3.1	4.0	8.3
3 People	27.1	4.4	8.1
4 to 5 People	23.6	8.2	12.0
გ to 8 People	13.3	5.1	8.5
9 or > People	5.3	4.0	4.8

Table A-16
Supervisor Writes Respondent's APR/OER/Appraisal

<u>u</u> =	SAC Pilots	Other AF Pilots	Non-Rated Officers
	(%)	(%)	(%)
	219	1916	7934
Yes	80.4	83.1	76.6
No	12.8	12.9	14.1
Not Sure	6.8	4.0	9.3

Table A-17
Work Schedule

	SAC Pilots (%)	Other AF Pilots (%)	Non-Rated Officers (%)
<u>n</u> =	219	1919	7970
Day Shift	8.7	13.9	74.8
Swing Shift	0.5	ŭ.O	0.2
Mid Shift	0.0	0.1	0.1
Rotating Shifts	0.5	4.2	5.3
Innegular Sched	8.7	23.0	10.8
Freq TDY/On-call	2.7	10.5	7.4
Crew Sched	79.0	49.4	1.4

Table A-18
Supervisor Holds Group Meetings

<u>n</u> =	SAC Pilots (%) 216	Other AF Pilots (%) 1914	Non-Rated Officers (%) 7956
Never	4.6	5.7	6.6
Occasionally	30.6	22.7	22.4
Monthly	30.6	15.0	13.8
Weekly	31.0	38.2	43.9
Daily	2.3	15.8	11.5
Continuously	0.9	2.6	1.8

Table A-19
Supervisor Holds Group Meetings to Solve Problems

	SAC Pilots (%)	Other AF Pilots (%)	Non-Rated Officers (%)
<u>n</u> =	221	1904	7906
Never	18.1	13.6	15.8
Occasionally	46.2	41.3	42.6
Half the Time	14.9	22.0	22.1
Always	20.8	23.1	19.4

Table A-20
Aeronautical Rating and Current Status

<u>u</u> =	SAC Pilots	Other AF Pilots	Non-Rated Officers
	(%)	(%)	(%)
	225	1936	8010
Non-Rated	0.9	0.1	85.9
Non-Rated Crew	0.0	0.2	3.4
Rated Ops	96.9	98.0	2.3
Rated Support	2.2	1.8	8.3

Table A-21 Career Intent

		Other AF Pilots	Non-Rated Pilots
	(%)	(%)	(%)
<u>n</u> =	225	1928	8006
Retire 12 Mos	1.8	0.6	3.9
Career	61.3	39.0	52.3
Likely Career	25.8	31.7	20.7
Maybe Career	8.9	22.0	14.3
Likely Separate	0.9	5.0	5.4
Separate	1.3	1.6	3.4

Note:

The number (\underline{n}) is the total number of valid responses for the factor being examined.

AP	PPENDIX	

APPENDIX B

OAP ATTITUDINAL ANALYSES

Table B-1

Comparison of OAP Factor Scores

Between SAC Pilots, Other AF Pilots, and Non-Rated Officers

	Τ	HE WORK	(ITSELF		
	Mean	SD	₫ f	F-Ratio	Subset
Job Performance Goals SAC Pilots Other AF Pilots Non-Rated Officers	4.88 4.92	.86	2,9819	62.64***	2 2 1
Task Characteristics SAC Pilots Other AF Pilots Non-Rated Officers		.84	2,9874	12.42***	1 1 1
Task Autonomy SAC Pilots Other AF Pilots Non-Rated Officers		1.26	2,9898	385.06***	1 2 3
Work Repetition SAC Pilots Other AF Pilots Non-Rated Officers		1.30	2,10039	69.90***	2 3 1
Desired Repetitive/ Easy Tasks SAC Pilots Other AF Pilots Non-Rated Officers	2.51	1.02	2,9750	2.72	1 1 1
Job Related Training SAC Pilots Other AF Pilots Non-Rated Officers	5.26 5.28	1.25	2,7948	204.41***	2 2 1

 $\underline{\text{Note}}_{\bullet}$. Groups not in the same subset are significantly different at the .05 level.

^{*}p<.05. **p<.01. ***p<.001.

Table B-1 (Continued)

JOB ENRICHMENT						
	Mean	SD	<u>df</u>	<u>F</u> -Ratio	Subset	
Skill Variety			2,10107	66.78***		
SAC Pilots	5.62	1.08	•		2	
Other AF Pilots					2	
Non-Rated Officers	5.39	1.29			1	
Task Identity			2,10086	12.47***		
SAC Pilots	5.44	1.19			2	
Other AF Pilots	5.34	1.11			1,2	
Non-Rated Officers	5.21	1.23			1	
Task			2,10136	.90		
SAC Pilots	5.73	1.16	•		1	
Other AF Pilots					1	
Non-Rated Officers	5.82	1.26			1	
Job Feedback			2,10095	.81		
SAC Pilots	4.78	1.11	<i>*</i>		1	
Other AF Pilots	4.89	1.09			1	
Non-Rated Officers					1	
Need for Enrichment			2,9877	25.12***		
SAC Pilots	6.04	.79			1,2	
Other AF Pilots	5.98	.85			1	
Non-Rated Officers	6.13	.85			2	
Job Motivation			2,9260	111.14***		
SAC Pilots 9	77.91	53.08			1	
Other AF Pilots 10	7.75	56.04			2	
Non-Rated						
Officers 10	31.53	68.08			3	

 $\underline{\text{Note}}_{\bullet}.$ Groups not in the same subset are significantly different at the .05 level.

^{*}p<.05. **p<.01. ***p<.001.

Table B-1 (Continued)

	WOR	K GROU	PROCESS		
	Mean	SD	df	F-Ratio	Subset
Work Support			2,9755	56.75***	
• •	4.44	1.03			2
Other AF Pilots	4.29	1.03			1
Non-Rated Officers	4.58	1.08			3
Management Superv			2,9538	16.03***	
SAC Pilots	5.49	1.12	•		2
Other AF Pilots	5.43	1.16			2 2
Non-Rated Officers	5.25	1.40			i
Superv Communications			2,9352	17.61***	
SAC Pilots	5.04	1.18	ŕ		2
Other AF Pilots	5.00	1.27			2
Non-Rated Officers		1.47			1
Orgn1 Communications			2,9449	23.09***	
SAC Pilots	5.13	1.05			2
Other AF Pilots	5.01	1.17			2 2
Non-Rated Officers					1

 $\underline{\text{Note}}_{\bullet}$. Groups not in the same subset are significantly different at the .05 level.

^{*}p<.05. **p<.01. ***p<.001.

Table B-1 (Continued)

WORK GROUP OUTPUT					
	Mean	SD	<u>df</u>	<u>F</u> -Ratio	Subset
Pride			2,10079	65.01***	
SAC Pilots					2 2 1
Other AF Pilots					2
Non-Rated Officers	5.40	1.41			1
Advance/Recognition			2,9682	1.05	
SAC Pilots	4.71	1.07			1
Other AF Pilots	4.59	1.07			1
Non-Rated Officers					1
Work Group Effective			2,9780	12.20***	
Work Group Effective SAC Pilots	5.94	.85	_,		2
Other AF Pilots					2 1,2
Non-Rated Officers	5.74	1.12			1
Job Rel Satisfaction			2.9109	18.87***	
SAC Pilots		.97	_,		1
Other AF Pilots					1
Non-Rated Officers					2
General Org Climate			2.9474	34.18***	
SAC Pilots	5.54	.96	- , · · · ,		3
Other AF Pilots					3 2 1
Non-Rated Officers					ī

 $\underline{\text{Note}}_{+}$. Groups not in the same subset are significantly different at the .05 level.

^{*}p<.05. **p<.01. ***p<.001.

_	APPENDIX	
	ALLENDIA	

APPENDIX C
FACTORS AND VARIABLES BOOKLET

FACTORS AND VARIABLES OF THE ORGANIZATIONAL ASSESSMENT PACKAGE

Force Human Resources Laboratory and the Leadership and Management
Development Center (LMDC) and is used to aid LMDC in its missions to: (a)
Conduct research on Air Force systemic issues using information in the GAP
database. (b) provide laadership and management training, and (c) provide
management consultation service to Air Force commanders upon request. The OAP is a 109-item survey questionnaire designed jointly by the Air

Allowable responses to the attitudinal items on the survey range from I (low) to 7 (high). The attitudinal Items are grouped into 25 factors that address such areas as the Job Itself, management and supervision communications, and performance in the organization. Each data record consists of 7 externally coded descriptors and 24 demographic items as well as the responses to the 93 attitudinal items.

The factors measured by the OAP are grouped into a systems model to assess three aspects of a work group: input, process, and output (adapted from McGrath's model).

Input. In LMDC's adaptation of the model, input is comprised demographics, work itself, and job enrichment.

A. Demographics. Descriptive or background information about the Corespondents to the OAP survey.

8. Mork isself. The work itself has to do with the task properties (technologies) and environmental conditions of the job. It assesses the patterns of characteristics members bring to the group or organization, and patterns of differentiation and integration among position and roles. The following OAP factors measure the work itself:

806 - Job Desires (Need For Enrichment)
810 - Job Performance Goals
812 - Task Characteristics
813 - Task Autonomy
814 - Mork Repetition
816 - Desired Repetition
816 - Desired Repetition
823 - Job Related Training
Job Influences (not a statistical factor)

C. Job Enrichment. Measures the degree to which the job itself is interesting, meaningful, challenging, and responsible. The following OAP factors measure job enrichment:

800 - Skill Variety 801 - Task identity 802 - Task Significance 804 - Job Feedback 806 - Meed for Enrichment Index (Job Desires) 807 - Job Motivation Index

808 - OJI Total Score 809 - Job Motivation Index - Additive 825 - Motivation Potential Score

Work Group Process. The work group assesses the pattern of activity and interaction among the group members. The following DAP factors measures leadership and the work group process:

805 - Performance Barriers/Blockages (Nork Support)
818 - Management and Supervision
819 - Supervisory Communications Climate
820 - Organizational Communications Climate
820 - Work interferences (not a statistical factor)
Supervisory Assistance (not a statistical factor)

Mork Group Output. Measures task performance, group development, and effects on group members. Assesses the quantity and quality of task performance and alteration of the group's relation to the environment. Assesses changes in positions and role patterns, and in the development of morms. Assesses changes on stills and attitudes, and effects on adjustment. The following OAP factors measure the work group output:

811 - Pride 817 - Advancement/Recognition 821 - Work Group Effectiveness (Perceived Productivity) 822 - Job Related Satisfaction 824 - General Organizational Climate

EXTERNALLY CODED DESCRIPTORS

Batch Number

Julian Date of Survey

Major Command

Base Code

Consultation Method

Consultant Code

Survey Version

(Note: These items are concatenated to each data record during EDP processing.)

DEMOGRAPHIC Statement	DENOGRAPHIC ITEMS (WOT A STATISTICAL FACTOR) Attended	Mumber 004	Number 2	E 8
Pumber	Statement			2. Nore than I month, less than 6 months 3. More than 6 months, less than 12 months
•	Supervisor's Gode			5. More than 16 months, less than 24 months 6. More than 18 months, less than 24 months 6. More than 24 months, less than 16 months
•	Vark Group Code			7. Here than 36 months
	Sex	500	n	Total months at this station:
•	Your age is			1. Less than I month 2. More than I month, less than 6 months 3. More than 6 months, less than 12 months
•	Top are (efficer, enlisted, 65, etc.)			4. Nore than 12 months, less than 18 months 5. Nore than 18 months, less than 24 months
•	Tour pay grade is			
•	Primary MSC	8	•	Total months in present peritien:
	DEAL ASSE			1. Less Than 1 month. less than 6 months 2. Hore than 6 months, less than 12 months 3. More than 6 months, less than 12 months
bow item are	(Note: The above items are on the response sheet.)			4. Nore than 12 months, less than 18 months 5. Nore than 18 months, less than 24 months 6. Nore than 34 months, less than 36 months 7. Nore than 36 months
	(Not used)	700	••	Tour Ethnic Group 1s:
	(Not used)			1. American Indian or Alastan Native 2. Asian or Pacific Islander
-	Total years in the Air Force:			J. Black, not of Mispanic Origin 4. Hispanic 5. White, not of Mispanic Origin
	1. Less than I year 2. More than I year, less than 2 years 3. More than 2 years, less than 3 years	800	=	 Other Which of the following "best" describes your marital status?
	4. Nore than 3 years, less than 4 years 5. Nore than 4 years, less than 8 years 6. Nore than 8 years			0. Not married. 1. Married: Spouse is a civilian employed outside home. 2. Married: Spouse is a civilian employed

	Statement	Your work requires you to work primarily: 1. Alone 2. With one or two people 3. As a small work group (3-5 people) 4. As a large work group (6 or more people) 5. Other	What is your usual work schedule? 1. Day shift, normally stable hours 2. Swing shift (about 1600-2400) 3. Mid shift (about 1600-2400)		Now aften does your supervisor hold group meetings?	1. Mever 4. Weekly 2. Occasionally 5. Daily 3. Monthly 6. Continuously Monthly Monthly used to solve	1. Hever 3. About half the time 2. Occasionally 4. All of the time	What is your aeronautical rating and current status?	1. Monrated, not on aircrev 2. Nonrated, nou on aircrev 3. Rated, in crev/operations job 4. Rated, in support job
Statement	New Ser	=	21		2	2		2	
Variable	Musber	*	\$10		910	017		910	
Statement	Your highest education level obtained is:	1. Non-high school graduate 2. Migh school graduate or 6E0 3. Less than two years college 4. Two years or more college 5. Gachelors Degree 6. Masters Degree 7. Doctoral Degree	Highest level of professional military education (residence or correspondence): 0. Mone or not applicable	1. NCD Orientation Course or USAF Separetar Course (NCD Phase 1 or 2) 2. NCD Leadership School (NCD Phase 3) 3. NCD Academy (NCD Phase 4) 4. Senior NCD Academy (NCD Phase 5) 5. Squadron Officer School 6. Intermediate Service School 1. e., ACSC,	AFSC) 7. Senier Service School (1.e., AJC, 1CAF, INC) INC)	Now many people do you directly supervise? 1. None 5. 4 to 5 2. 1 6. 6 to 8 3. 2 7. 9 or more	for how many people do you write performance reports?	1. None S. 4 to S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Does your supervisor actually write your performance report? 1. Yes 2. No 3. Not sure
Statement	•					•	•		2
Variable	6		010		51	110	. 210		013

Statement	Which of the following best describes your career or employment intentions?	1. Planning to retire in the next 12 months 2. Will continue in/with the Air Force as a	career 3. Will most likely continue in/with the	Air Force 4. May continue in/with the Air Force	5. Will most likely not make the Air Force a Career	6. Will separate/terminate from the Air force as soon as possible
Statement Number	2					
Variable Bember	610					

MOTE: Variable 006, Statement II was added to the DAP on 19 Jan 80 and replaced variable 014 which appears on page 6. Although no longer used, Variable 014 is still shown because data collected from about 25,000 samples for this variable are still in the data base.

FACTOR

Each 800 series factor consists of two or more variables which correspond to statements in the DAP. A mean score can be derived for each factor except 805, 807, 808, 809 and 825 by using a "straight average." The formula for computing the exceptions is indicated.

FACTOR 800 - SKILL VARIETY: Measures the degree to which a job requires a variety of different tasks or activities in carrying out the work; involves the use of a number of different skills and talents of the worker; skills required are valued by the worker.

Statement	To what extent does your Job require you to do many different things, using a variety of your talents and skills?	To what extent does your job require you to use a number of complex skills?
Statement Number	11	8
Variable	102	212

FACTOR BOI - IASK IDENTITY: Measures the degree to which the job requires completion of a "whole" and identifiable place of work from beginning to end.

Statement	To what extent does your job involve doing a whole task or unit of work?	To what extent does your Job provide you with a chance to finish completely the piece of work you have becam?
Statement	•	\$ 2
Variable Number	202	112

FACTOR 802 - IASK SIGNIFICANCE: Measures the degree to abich the job has a <u>substantial impact on the Tives</u> or work of others; the importance of the job.

Statement	To what extent is your job significant in that it affects others in some important way?	To what extent does doing your job well affect a lot of people?
Statement	61	23
Variable Rumber	E	510

FACTOR 803 (NOT USED)

FACTOR 804 - JOB FEEDBACK: Measures the degree to which carrying out the work <u>activities required by the j</u>ob results in the worker obtaining clear and direct information about job outcomes or information on good and poor performance.

Statement	To what extent are you able to determine how well you are doing your job without feedback from anyone else!	To what extent does your job provide the chance to know for yourself when you do a good job, and to be responsible for your own worl?
Statement	22	%
Variable Rember	2/2	508

53

FACTOR 805 - NOOK SUPPORT: Measures the degree to which work performance is Kindered by additional duties, details, inadequate tools, equipment, or work space.

Statement	To what extent do additional duties interfere with the performance of your primary Job?	To what extent do you have adequate tools and equipment to accompilsh your job?	To what extent is the amount of work space provided adequate?
Statement Number	ລ	₹ .	ĸ
Variable Number	ž	207	9 02

Formula (8-206+207+208)/3

FACTOR 806 - WEED FOR EMRICHMENT [ANDEX (JOB DESIRES): Has to do with job related characteristics (autonomy, personal growth, use of skills, etc.) that the individual would like in a job.

Statement	(in my job, i would like to have the characteristics describedfrom "not at ali" to "an extremely large amount")	Opportunities to have independence in my work.	A job that is meaningful.	The opportunity for personal growth in my job.	Opportunities in my work to use my skills.	Opportunities to perform a variety of tasks.	FACTOR 807 - JOB MOTIVATION INDEX: A composite index derived from the six Job Engreceristics that reflects the overall "motivating potential" of a Job; the
Statement	would like to have t m "not at ail" to 'a	15	25	æ	35	\$\$	IOB MOTIVATION INDEX:
Variable Number	(in my job. i describedfro	549	250	152	252	253	FACTOR 807 - Characteristic

FACIOR 807 - JOB HOTIVATION INDEX: A composite index derived from the six job Characteristics that reflects the overall "motivating potential" of a job; the degree to which a job will prompt high internal work motivation on the part of job encumbents.

Index is computed using the following factors:

8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Skill variety	Task Identity	Task significance	Performance barriers/blockages	Task autonomy	Job feedback
	8	108	208	S	613	8

Formula ((800+801+802+805)/4)+813+804

FACTOR 808 - QJI 101AL SCORE: Assesses one's perception of motivation provided by his or her job. This factor is a variation of a scale employed by other job motivation theorists.

Score is computed using the variables in the following formula:

Formula (Y201-Y202-Y203-Y270-Y271-Y272 -8-Y206-Y207-Y208-Y209-Y210 -Y211-Y212-Y213)

FACTOR 809 - JOB MDITVATION INDEX ---- ADDITIVE: This factor is a variation of a scale amployed by other job motivation theorists.

Index is computed using the following factors:

Skill variety	Task identity	Task significance	Performance barriers/blockage	Task autonomy	Work repetition
8	<u>.</u>	~	508	813	ş

Formula ((800-801-802-805)/4)-813-804

FACTOR 810 - JOB PERFORMANCE GOALS: Measures the extent to which job performance goals are clear, specific, realistic, understandable, and challenging.

	To what extent do you know exactly what is expected of you in performing your job!	To what extent are your job performance goals difficult to accomplish?	To what extent are your Job performance goals clear?	To what extent are your Job performance goals specific?	To what extent are your job performance goals realistic?
Statement	To what extent do yn expected of you in p	To what extent are goals difficult to a	To what extent are y goals clear?	To what extent are y goals specific?	To what extent are ; goals realistic?
Statement Number	×	×	*	X	×
Variable Ber	21,	218	273	274	122

54

FACTOR 811 - PRIDE: Measures the pride in one's work.

Statement	To what extent are you proud of your Job	To what extent does your work give you a feeling of pride?
Statement Number	Ħ	3
Variable Bester	345	275

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FACTOR BIZ - TASK CMADACTERISTICS: A combination of skill variety, task Identity, task significance, and job feedback designed to measure several aspects of one's job.

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いたことでは、これには、一般などのなどは、これできない。

Statement	To what extent does your job require you to do many different things, using a variety of your talents and skills?	To what extent does your job involve doing a whole task or unit of work?	To what extent is your job significant, in that it affects others in some important way?	To what extent are you able to determine how well you are doing your job without feedback from anyone else?	is what extent does your job provide the charce to know for yourself when you do a good job, and to be responsible for your ownwork?	To what extent does doing your job well affect a lot of people?	To what extent does your job provide you with a chance to finish completely the piece of work you have begun?	To what extent does your job require you to use a number of complex skills?	
Statement Number	17	2	2	22	92	12	2	æ	
Variable	102	202	£02	272	508	012	112	212	

FACTOR 813 - TASK AUTOMOMY: Measures the degree to which the job provides <u>Freedom to do the work as one sees fit;</u> discretion in scheduling, decision making, and means for accomplishing a job.

Statement	To what extent does your job provide a great deal of freedom and independence in scheduling your work?	To what extent does your job provide a great deal of freedom and independence in selecting your own procedures to accomplish it?	To what extent does your job give you freedon to do your work as you see fill	To what extent are you allowed to make the major decisions required to perform your job well?
Statement Number	R	z	8	ĸ
Variable Number	270	1/2	213	214

FACTOR 814 - 1	ORK REPETITION:	Measures the extent to which one merforms the came	076	3	
tasks or faces	the same type of	tasks or faces the same type of problems in his or her job on a regular basis.		\$	io what extent are you being prepared to accept increased responsibility?
Variable Number	Statement Humber	Statement	142	\$	To what extent do propie who perform well receive recognitions
922	85	To what extent do you perform the same tasks repeatedly within a short period of time?	276	5	To what extent do you have the opportunity to learn skills which will improve your aroun-
222	3	To what extent are you faced with the same type of problem on a weekly basis?			tion potential?
FACTOR 815 (NOT USED)	01 USE03		FACTOR SIG WOTER NAS HI	MANAGENERT and SUPP on performance star received, and the c	FACTOR BIS - MANAGENENT and SUPERVISION (A): Measures the degree to which the vorter has high performance itandards and good work procedures. Measures support and guidance received, and the overall quality of supervision.
FACTOR 816 - 0 desires his or	ESIREO REPETITIVE Ner Job Involve	FACIOR 816 - DESIREO REPETITIVE EASY TASES: Measures the extent to which one desires his or her 106 Tavolve repetitive Easks or Easks that are easy to	Variable Number	Statement Number	Statement
accomplish.			\$	88	ity supervisor is a good planner.
Variable Member	Statement	***************************************	405	88	My supervisor sets high performance standards.
×	3	A tob in which tacks are penaltities	410	9	My supervisor encourages teamork.
258	ts .	A job in which tasks are relatively easy to	411	19	My supervisor represents the group at all times.
			412	29	My supervisor establishes good work procedures.
FACTOR - JOB 1	MELUENCES (NOT A	FACTOR - JOB INTUENCES (NOT A STATISTICAL FACTOR):	• •	;	
Variable Number	Statement Number	Statement		69	My supervisor has made his responsibilities clear to the group.
912	33	To what extent do you feel accountable to your supervisor in accounitable to	445	3	by supervisor fully explains procedures to each group member.
238	2	To what extent do co-workers in your work group maintain high standards of performance?	416 FACTOR - MANA	Services but the services of the services but the services of	416 65 My supervisor performs well under pressure. FACIOR - MANAGEMENT and SUPERVISION (R). (MNT a STATISTICAL EXCENSIVE
FACTOR 817 - A and recognition	DVANCEMENT/RECOGN	FACTOR 817 - ADVANCEMENT/RECOGNITION: Measures one's emareness of advancement and recognition, and feelings of being prepared (1.e., learning new skills for accounting to the second statement and the second secon	Yariable Humber	Statement Number	Statement
Variable Meder	Statement	Statement	52	9	My supervisor takes time to help me when needed.
234	=	To what extent are you aware of promotion/advancement opportunities that affect you?	434	Z.	My supervisor lets me know when I am doing a poor job.
239	7	To what extent do you have the opportunity to progress up your rarest lades?	439	22	When I need technical advice, [usually go to my supervisor.

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AT COMMISCATIONS CLIMATE: Measures the degree to which	Ę	٦.	Ž
19 - SUPERVISORY	3	ĩ	7
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3	Ě	ደ	Z
à	ş	È	ζ
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2	the worter perceives that there is good rapport with supervisors, that there is	good worting environment, that innovation for task improvement is encouraged, and	that rewards are based upon performence
ACTOR BL	۲	£	į
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Ä	3	1	3
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Variable	Statement		977
	Number	Statement	
921	5	My supervisor asks members for their ideas on task improvements.	FACTOR
\$23	3	My supervisor explains how my job contributes to the overall mission.	Yariable
431	\$	My supervisor helps me set specific goals.	
ę,	2	My supervisor lets me know when I am doing a good job.	Ĉ
435	ĸ	We supervisor always helps ame improve my performance.	09 2
*	23	by supervisor insures that I get job related training when needed.	261
437	z	My job performance has improved due to feed- back received from my supervisor.	
442	92	My supervisor frequently gives as feedback on how well I am doing my job.	592

FACTOR 850 - ORGANIZATIONAL COMMUNICATIONS CLIMATE: Measures the degree to which the worker perceives that there is an open communications environment in the organization, and that adequate information is provided to accomplish the job.

Statement	ideas developed by my work group are readily accepted by management personnel above my supervisor.	My organization provides all the necessary information for me to do my job effectively.	My organization provides edequate information to my work group.	My work group is usually amore of important events and situations.	My complaints are aired satisfactorily.	The information in my organization is widely shared so that those meeding it have it
Statement Number	æ	2	2	£	3	1
 Variable Ruber	8	100	200	101	ĕ	\$

My organization has clear-cut goals.	The goals of my organization are reasonable.	My organization provides accurate information to my work group.	FIFTON 601 UNDER COMING SECTION COMING COMIN
±	et t		
*	6	100	108 and 108 and
314	317	318	i

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Statement	The quantity of output of your work group is very high.	The quality of output of your work group is very high.	When high priority work arises, such as short suspenses, crash programs, and schedule changes, the people in my work group do an outstanding Job in handling these situations.	Your work group always gets maximum output from available resources (e.g., personnel and material).	Your work group's performance in comparison to similar work groups is very high.
Statement Humber	"	78	96	8	18
Variable Number	652	260	192	564	592

FACTOR - WORK INTERFERENCES (NOT A STATISTICAL FACTOR): Identifles things that Impede an Individual's Job performance.

Statement	io what extent do you have the macessary supplies to accomplish your job?	To what extent do details (task mot covered by primary or additional duty descriptions) interfere with the performance of your primary job?	To what extent does a bottleneck in your organization seriously affect the flow of work either to or from your group?
Statement Number	3	•	3.
Variable	112	3 2	273

worker	
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degree	of the Job.
ŝ	the Job.
Measures the degree t	rad:
JOB RELATED SATISFACTION: N	satisfied with factors surro
3	41.5
RELATE	187.00
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×	-
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FACTOR 822	ž,
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Statement	Feeling of Helpfulness The Chance to help people and improve their welfare through the performance of my job. The importance of my job performance to the welfare of others.	Co-worker Relationships My amount of effort of My amount of effort Compared to the effort of my co-workers, the extent to which my co-workers share the load, and the spirit of teamwork which exists among my co-workers.	Family Attitude Toward Job The recognition and the pride my family has in the work I do.	Work Schedule By work schedule; flexibility and regularity of my work schedule; the number of hours I work per week.	Job Security	Acquired Valuable Skills The chance to acquire valuable skills in my Job which prepare me for future opportunities	My Job as a Whole
Statement Number	6 1	201	103	901	101	108	109
Variable Number	202	502	710	11.	718	719	123

FACTOR 823 - JOB RELATED TRAINING: Measures the extent to which one is satisfied with on-the-job and technical training received.

Statement	On-the-Job Training (QJT) The GJT instructional methods and instructors' competence.	Technical Training (Other than OJI) The technical training have received to perform my current Job.
Statement Number	3 0	5 01
Variable Number	711	712

1

FACTOR 824 - GENERAL ORGANIZATIONAL CLIMATE: Measures the individual's perception of his or her organizational environment as a whole (i.e. spirit of teamourk, communications, organizational pride, etc.).

Statement My organization is very interested in the attitudes of the group members toward their	jobs. My organization has a very strong interest in the welfare of its people.	I am very proud to work for this organization.	l feel responsible to my organization in accomplishing its mission.	Personnel in my unit are recognized for outstanding performance.	i am usually given the opportunity to show or demonstrate my work to ethers.	There is a high spirit of teamwork among my co-workers.	There is outstanding cooperation between work groups of my organization.	I feel motivated to contribute my best efforts to the mission of my organization.	My organization rewards individuals based on performance.
Statement Number 87	88	88	8	26	93	*	S6	97	86
Variable Number 305	306	307	308	310	111	312	313	315	316

FACTOR 825 - HOIIVATION POTENTIAL SCORE: This factor is amother variation of a scale employed by other job mativation theorists. The score ranges between 1 and 343 with 109 being the Aif force average. Low scores indicate a poorly mativating job. Score is computed using the following factors:

Skill variety	Task identity	Task significanc	Job feedback	Task autonomy
8	5	805	Ž	813

Formula ((800+801+802)/3)*813*804

9

	Statement	To what axtent does your job give you freedom to do your work as you see fit?	To what artent are you allowed to make the major decisions required to perform your job well?	To what extent are you proud of your job?	To what extent do you feel accountable to your supervisor in accomplishing your job?	To what extent do you know exactly what is expected of you in performing your Job?	To what extent are your Job performance goals difficult to accomplish?	(Not used)	to what extent are your job performance goals realistic?	(Not used)	To what extent do you perform the same
	Statement Rumber	8	π	23	a	×	35	ì	*	:	25
	Factor	613	913	118	:	910	018	;	019	:	\$18
	Variable Number Factor	213	\$11	\$12	216*	217	218	022 + 612	122	222-222	922
VARIABLES	7 - Company 173 S	To what extent does your job require you to do many different things, using a variety of your talents	and skills? To what extent does your job involve doing a <u>whole</u> task or wait of work?	To what extent is your job significant, in that it affects others in some	important way? . {Mot wsed}	To what extent do <u>additional duties</u> interfere with the performance of your primary job?	To what extent do you have adequate tools and equipment to eccomplish your job?	To what extent is the amount of work	space provided adequater To what extent does your job provide	the chance to know for yourself when you do a good job, and to be	responsible for your dem work?
	Statement Number	r.	91	61	1	n	₹.	\$2	×		
	Factor	218/008	801/812	218/208	:	508	508	50	804/812		
	Terisble Maber	ē	æ	æ	- 502 7 702	ž	R	2	Ş		
								- 0			

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This variable is an element of "job influences" (not a statistical factor).

To what extent are you faced with the same type of problem on a weekly basis?

To what extent do you perform the same tisks repeatedly within a short period of time?

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223

To what extent does your job require you to use a number of complex skills?

To what extent does your job provide you with a chance of finish completely the piece of work you have begun?

801/812

112

218/208

210

58

218/008

212

To what extent does doing your job well affect a lot of people?

Fector : 52	Statement Number	Statement (Not wood) To what extent are you aware of	Variable humber 256 & 257 258	Factor 17 : 16	Statement Number	Statement (Not used) A job in which tasks are relatively easy to
: :			652	129	"	accomplish. The quantity of output of your work group is very high.
ä		To what extent do co-worters in your work group existsin high standards of performance?	92 5	5	5 5	The quality of output of your work group is very high.
2		To what extent do you have the opportunity to progress up your career ladder?		į	2	when high priority work arises, such as smore suspenses, cresh programs, and schedule changes, the people in my work group do an outstanding lob in handling these
3		To what extent are you being prepared to accept increased responsibility?	262 & 263	1	;	situations.
\$		To what extent do people who perform well receive recognition?	35.	12	8	Your work group always gets maximum output
;		(Not used)				nater(a)).
15		Opportunities to have independence in my work?	592	28	=	Your work group's performance in comparison to similar work groups is very high.
25		A job that is meaningful.	566-269	:	:	(Not used)
2		The opportunity for personal grouth in ay job.	0.2	3	R	To what extent does your job provide a great deal of freedom and independence in scheduling your work?
z z		Opportunities in my work to use my skills. Opportunities to perform a variety of tasks.	17.2	=	≂	To what extent does your job provide a great deal of freedom and independence in selecting
;						your own procedures to accomplish ft?
:			212	804/812	z	To what extent are you able to determine how
×		A jeb in which tasks are repetitive.				well you are doing your job without feedback from anyone else?

59

. This variable is an element of "job influences" inot a statistical factor).

		Statement	· · · · · · · · · · · · · · · · · · ·	of work group is usually aware of important events and situations.	A complaints are stead to the state of the s	W office of the second of the	attitudes of the group members toused their Jobs.		ny organization has a very strong interest in the welfare of its people.	l en very proud to work for this	organization. E feel responsible to my organization (a	eccomplishing its mission.	The information in my organization is widely shared so that those needing it have it	available.	Personnel in my unit are recognized for outstanding performance.		demonstrate by vork to others.	There is a high spirit of tempory and	co-workers.	Them to substantia
	Statement	Mumber	SE SE	;	20	*		8		8	8		76		26	93				•
		Factor	820		22	824		924		128								Z		Ş
		Manger						•		•	729		029		3 5	82		28	•	170
3			303		Š	305		306	;	Ř	8		80	;		316		312	=	;
4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	THE PARTY OF THE P	To what extent are your job performance maste	clear	To what extent are your job performance goals	232.2344	To what extent does your work give you a feeling of pride?	To what extent do you have the opportunity to learn skills which will immrave wour	promotion potential?	To what extent do you have the necassary supplies to eccomplish your fab.	To what extent do dessite fear any courses	by primary or additional duty descriptions) Interfere with the performance of your primary lob?		To what extent does a bottleneck in your organization seriously affect the flow of work either to or from your group?	(Not used)	idess developed by my work group are readily	Supervisor.		more maries for any to do my job effectively.	ry organization provides adequate information to by work group.	
Manber		×		33	;	\$	5		₹	67		s	R	:	28		8	3	S	
Factor		810		910	į	=	813		:	:		:	i	:	. 02		0Z	22	1	
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group at all id work isponsibilities ander pressure. belp me when	ocedures. To supervisor establishes good work To supervisor has made his responsibilities To supervisor performs well under pressure. Oct used) Oct used) To supervisor takes time to help me when	thy supervisor repres times. Hy supervisor establ hy supervisor has an clear to the group. (Not used) Hy supervisor perfor Hy supervisor takes pended.	### 62 Py supervisor establishes good work procedures. ### 618 63 Py supervisor has made his responsibilities clear to the group. (Act used) ### 818 65 Py supervisor performs well under pressure. (Rot used) 66 Py supervisor takes time to help me when manded.
		times. Hy supervisor estably supervisor estably supervisor has an clear to the group. (Not used) Hy supervisor perfor (Not used) Hy supervisor takes needed. (Not used)	2 2 1 2 1 2 1

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••• This variable is an element of "supervisory assistance" (not a statistical factor).

*** These variables are elements of "supervisory assistance" (not a statistical fector).

Statement	feeling of Helpfulness The Charte to Help people and Improve their welfare through the performance of my job. The importance of my job performance to the velfare of others.	(Not esed)	Co-worker Relationships Ny amount of effort compared to the effort of ny Co-workers, the estivat to which we co-workers share the load, and the spirit of teamort which exists among my co-workers.	Family Attitude Toward Job The receptition and the pride my family has in the work I do.	On-the-Job Training (QJT) The UJT instructional methods and instructors' competence.	Technical Training (Other than DJT) The technical training I have received to perform my current job.	(Not used)	Nort Schedule Ny work Echedule; flexibility and regularity of my work schedule; the number of hours I work per week.	Job Security	Acquired Valuable Skills The Chance to acquire valuable skills in my job which propers me for future apportunities.	(Net used)	My Job as a Whole	(Hot used)
The second	101	:	201	103	5	2 01	:	901	10,	S	:	100	:
Factor	8	:	E	2	2	5	:	2	22	8	:	Ē	;
i	¥	706-708	\$	61	111	212	713-716	111	27	8 12	720-722	622	724-999
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